

ABSTRACT

A Virtual Fixture includes 3 main components , Base Plate , Riser Base , & Riser . The Base Plate is connected to the Base Riser by a threaded rod , a coupler , and a pivot with locking device . The Riser is attached to the Riser Base with circular slots for additional rotation ability . The Riser has a threaded rod and coupler which holds a tooling sphere or similar probe . The Base Plate has multiple slots for different configurations to use multiple probes . This enables user to locate , part or component , for quality inspection using datum target points .